

=====

Sequence Listing was accepted with existing errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Mon May 14 12:46:33 EDT 2007

=====

Application No: 10764288

Version No: 1.1

Input Set:

Output Set:

Started: 2007-05-14 12:46:12.973

Finished: 2007-05-14 12:46:15.606

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 633 ms

Total Warnings: 44

Total Errors: 1

No. of SeqIDs Defined: 44

Actual SeqID Count: 44

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2007-05-14 12:46:12.973
Finished: 2007-05-14 12:46:15.606
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 633 ms
Total Warnings: 44
Total Errors: 1
No. of SeqIDs Defined: 44
Actual SeqID Count: 44

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

E 330

Invalid protein , found in SEQID(25) POS (6)Invalid Protein:ser

SEQUENCE LISTING

<110> Livnah, Nurit
 Yechezkel, Tamar
 Salitra, Yoseph
 Perlmutter, Boris
 Ohne, Onsat
 Cohen, Ilana
 Litman, Pninit
 Senderowitz, Hanoach

<120> Protein Kinase Inhibitors Comprising ATP Mimetics Conjugated to
 Peptides or Peptidomimetics

<130> 87534-4300

<140> 10/764,288
 <141> 2004-01-23

<150> PCT/IL02/00618
 <151> 2002-07-25

<150> IL 144583
 <151> 2001-07-26

<160> 44

<170> PatentIn version 3.3

<210> 1
 <211> 7
 <212> PRT
 <213> Artificial

<220>
 <223> 7-mer motif of PKB substrates

<300>
 <301> Dario R. Alessi et al.
 <302> Molecular Basis for the Substrate Specificity of Protein Kinase
 B; Comparison with MAPKAP Kinase-1 and p70 S6 Kinase
 <303> FEBS Letters
 <304> 399
 <306> 333-338
 <307> 1996-12-16

<400> 1

Arg Pro Arg Thr Ser Ser Phe
 1 5

<210> 2
 <211> 6
 <212> PRT
 <213> Artificial

<220>
<223> Consense Sequence of PKB substrates

<220>
<221> misc_feature
<222> (2)..(2)
<223> Xaa= any amino acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa= any amino acid

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa= any amino acid

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa= Ser or Thr

<300>
<301> Toshiyuki Obata et al.
<302> Peptide and Protein Library Screening Defines Optimal Substrate
Motifs for AKT/PKB
<303> The Journal of Biological Chemistry
<304> 275
<305> 46
<306> 36108-36115
<307> 2000-11-17

<400> 2

Arg Xaa Arg Xaa Xaa Xaa
1 5

<210> 3
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(bAla-5-mercaptoaminopropyl-isoquinoline)

<400> 3

Arg Pro Arg Thr Xaa Ser Phe

1 5

<210> 4
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(5-mercaptoaminopropyl-isoquinoline)

<400> 4

Arg Pro Arg Thr Xaa Ser Phe
1 5

<210> 5
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Orn

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(5-aminoethylsulfonamide-isoquinoline)

<400> 5

Arg Pro Arg Xaa Xaa Ser Phe
1 5

<210> 6
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Nva

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(5-mercaptoaminopropyl-isoquinoline)

<400> 6

Arg Pro Arg Xaa Xaa Ser Phe
1 5

<210> 7
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Nle

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(5-mercaptoaminopropyl-isoquinoline)

<400> 7

Arg Pro Arg Xaa Xaa Ser Phe
1 5

<210> 8
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Orn

<220>
<221> misc_feature

<222> (5)..(5)
<223> Xaa=Glu-(Gly-5-aminoethylsulfonamide)

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa=diaminobutyric acid (Dab)

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa=Homoleucine (Hol)

<400> 8

Arg Pro Arg Xaa Xaa Xaa Xaa
1 5

<210> 9
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Nle

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(Gly-5-aminoethylsulfonamide)

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa=diaminobutyric acid (Dab)

<400> 9

Arg Pro Arg Xaa Xaa Xaa Phe
1 5

<210> 10
<211> 7
<212> PRT
<213> Artificial

<220>
<223> syntheic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Nle

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(Gly-5-aminoethylsulfonamide)

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa=diaminobutyric acid (Dab)

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa=homoleucine (Hol)

<400> 10

Arg Pro Arg Xaa Xaa Xaa Xaa
1 5

<210> 11
<211> 12
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Xaa=biotin-Lys

<400> 11

Xaa Gly Arg Pro Arg Thr Ser Ser Phe Ala Glu Gly
1 5 10

<210> 12
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>

<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(CO-N-5-aminoethylsulfoneamide-isoquinoline)

<400> 12

Arg Pro Arg Thr Xaa Ser Phe
1 5

<210> 13
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Nle

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(CO-N-bAla-5-aminoethylsulfoneamide-isoquinoline)

<400> 13

Arg Pro Arg Xaa Xaa Ser Phe
1 5

<210> 14
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(CO-N-5-mercaptoaminopropyl-isoquinoline)

<400> 14

Arg Pro Arg Thr Xaa Ser Phe
1 5

<210> 15
<211> 7

<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Orn

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(CO-N-5-aminoethylsulfoneamide-isoquinoline)

<400> 15

Arg Pro Arg Xaa Xaa Ser Phe
1 5

<210> 16
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Nle

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(CO-N-Ala-5-aminoethylsulfoneamide-isoquinoline)

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa=diaminobutyric acid (Dab)

<400> 16

Arg Pro Arg Xaa Xaa Xaa Phe
1 5

<210> 17
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa=Homoleucine (Hol)

<400> 17

Arg Pro Arg Thr Ser Ala Xaa
1 5

<210> 18
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa=Abu

<400> 18

Arg Pro Arg Val Ser Xaa Phe
1 5

<210> 19
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa=Abu

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa=Homoleucine (Hol)

<400> 19

Arg Pro Arg Thr Ser Xaa Xaa
1 5

<210> 20

<211> 7

<212> PRT

<213> Artificial

<220>

<223> synthetic peptide

<220>

<221> misc_feature

<222> (6)..(6)

<223> Xaa=Diaminopropionic acid (Dap)

<220>

<221> misc_feature

<222> (7)..(7)

<223> Xaa=Homoleucine (Hol)

<400> 20

Arg Pro Arg Thr Ser Xaa Xaa
1 5

<210> 21

<211> 7

<212> PRT

<213> Artificial

<220>

<223> synthetic peptide

<400> 20

Arg Pro Arg Thr Ser Asp Phe
1 5

<210> 22

<211> 7

<212> PRT

<213> Artificial

<220>

<223> synthetic peptide

<400> 22

Arg Pro Arg Met Ser Ser Phe
1 5

<210> 23
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Orn

<400> 23

Arg Pro Arg Xaa Ser Ser Phe
1 5

<210> 24
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<400> 24

Arg Pro Arg Arg Ser Ser Phe
1 5

<210> 25
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Nle

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa=Nle

<400> 25

Arg Pro Arg Xaa Ser ser Xaa
1 5

<210> 26
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<400> 26

Arg Pro Arg Arg Ser Ser Arg
1 5

<210> 27
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Orn

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa=Orn

<400> 27

Arg Pro Arg Xaa Ser Ala Xaa
1 5

<210> 28
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa=Abu

<220>
<221> misc_feature

<222> (7)..(7)
<223> Xaa=Phe-(O-CO-N-5-aminoethylsulfoneamide-isoquinoline)

<400> 28

Arg Pro Arg Thr Ser Xaa Xaa
1 5

<210> 29
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa=Glu-(CO-N-5-aminoethylsulfoneamide-isoquinoline)

<400> 29

Arg Pro Arg Thr Ser Xaa Phe
1 5

<210> 30
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa=Abu

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa=Phe-(O-CO-N-bAla-5-aminoethylsulfoneamide-isoquinoline)

<400> 30

Arg Pro Arg Thr Ser Xaa Xaa
1 5

<210> 31
<211> 7
<212> PRT

<213> Artificial

<220>

<223> synthetic peptide

<220>

<221> misc_feature

<222> (5)..(5)

<223> Xaa=Glu-(CO-N-bAla-5-aminoethylsulfoneamide-isoquinoline)

<400> 31

Arg Pro Arg Thr Xaa Ser Phe

1 5

<210> 32

<211> 7

<212> PRT

<213> Artificial

<220>

<223> synthetic peptide

<220>

<221> misc_feature

<222> (4)..(4)

<223> Xaa=Orn

<220>

<221> misc_feature

<222> (5)..(5)

<223> Xaa=Glu-(CO-N-bGaba-5-aminoethylsulfoneamide-isoquinoline)

<400> 32

Arg Pro Arg Xaa Xaa Ser Phe

1 5

<210> 33

<211> 7

<212> PRT

<213> Artificial

<220>

<223> synthetic peptide

<220>

<221> misc_feature

<222> (5)..(5)

<223> Xaa=Glu-(CO-N-Ape5-5-aminoethylsulfoneamide-isoquinoline)

<400> 33

Arg Pro Arg Thr Xaa Ser Phe
1 5

<210> 34
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Nle

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu- (CO-N-bAla-5-aminoethylsulfoneamide-isoquinoline)

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa=Nle

<400> 34

Arg Pro Arg Xaa Xaa Ser Xaa
1 5

<210> 35
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu- (CO-N-bAla-5-mercaptoaminopropyl-isoquinoline)

<400> 35

Arg Pro Arg Thr Xaa Ser Phe
1 5

<210> 36
<211> 7

<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=diaminopropionic acid (Dap)-(N-CO-5-aminoethylsulfoneamide-isoquinoline)

<400> 36

Arg Pro Arg Thr Xaa Ser Phe
1 5

<210> 37
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Nle

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(CO-N-5-aminoethylsulfoneamide-isoquinoline)

<400> 37

Arg Pro Arg Xaa Xaa Ser Phe
1 5

<210> 38
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Asp-(CO-N-5-aminoethylsulfoneamide-isoquinoline)

<400> 38

Arg Pro Arg Thr Xaa Ser Phe
1 5

<210> 39

<211> 7

<212> PRT

<213> Artificial

<220>

<223> synthetic peptide

<220>

<221> misc_feature

<222> (4)..(4)

<223> Xaa=Nva

<220>

<221> misc_feature

<222> (5)..(5)

<223> Xaa=Glu-(CO-N-5-mercaptoaminopropyl-isoquinoline)

<400> 39

Arg Pro Arg Xaa Xaa Ser Phe
1 5

<210> 40

<211> 7

<212> PRT

<213> Artificial

<220>

<223> synthetic peptide

<220>

<221> misc_feature

<222> (4)..(4)

<223> Xaa=Nle

<220>

<221> misc_feature

<222> (5)..(5)

<223> Xaa=Glu-(CO-N-5-mercaptoaminopropyl-isoquinoline)

<400> 40

Arg Pro Arg Xaa Xaa Ser Phe
1 5

<210> 41

<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Nle

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(CO-N-bAla-5-aminoethylsulfoneamide-isoquinoline)

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa=Abu

<400> 41

Arg Pro Arg Xaa Xaa Xaa Phe
1 5

<210> 42
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Nle

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(CO-N-bAla-5-aminoethylsulfoneamide-isoquinoline)

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa=diaminobutyric acid (Dab)

<400> 42

Arg Pro Arg Xaa Xaa Xaa Phe
1 5

<210> 43
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Nva

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(CO-N-5-aminoethylsulfoneamide-isoquinoline)

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa=Homoleucine (Hol)

<400> 43

Arg Pro Arg Xaa Xaa Ala Xaa
1 5

<210> 44
<211> 7
<212> PRT
<213> Artificial

<220>
<223> synthetic peptide

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa=Nva

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa=Glu-(CO-N-bAla-5-aminoethylsulfoneamide-isoquinoline)

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa=Homoleucine (Hol)

<400> 44

Arg Pro Arg Xaa Xaa Ala Xaa

1

5